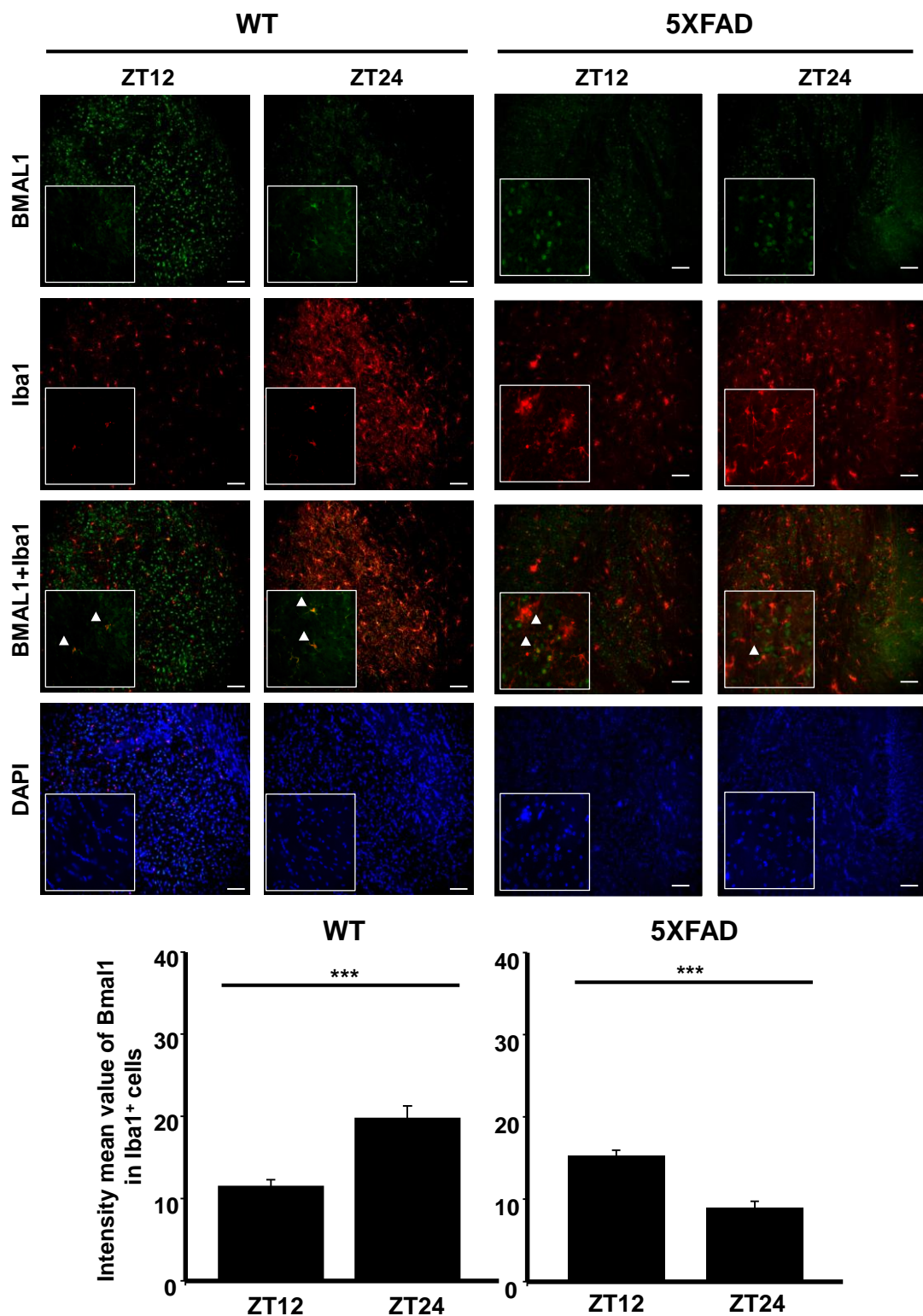
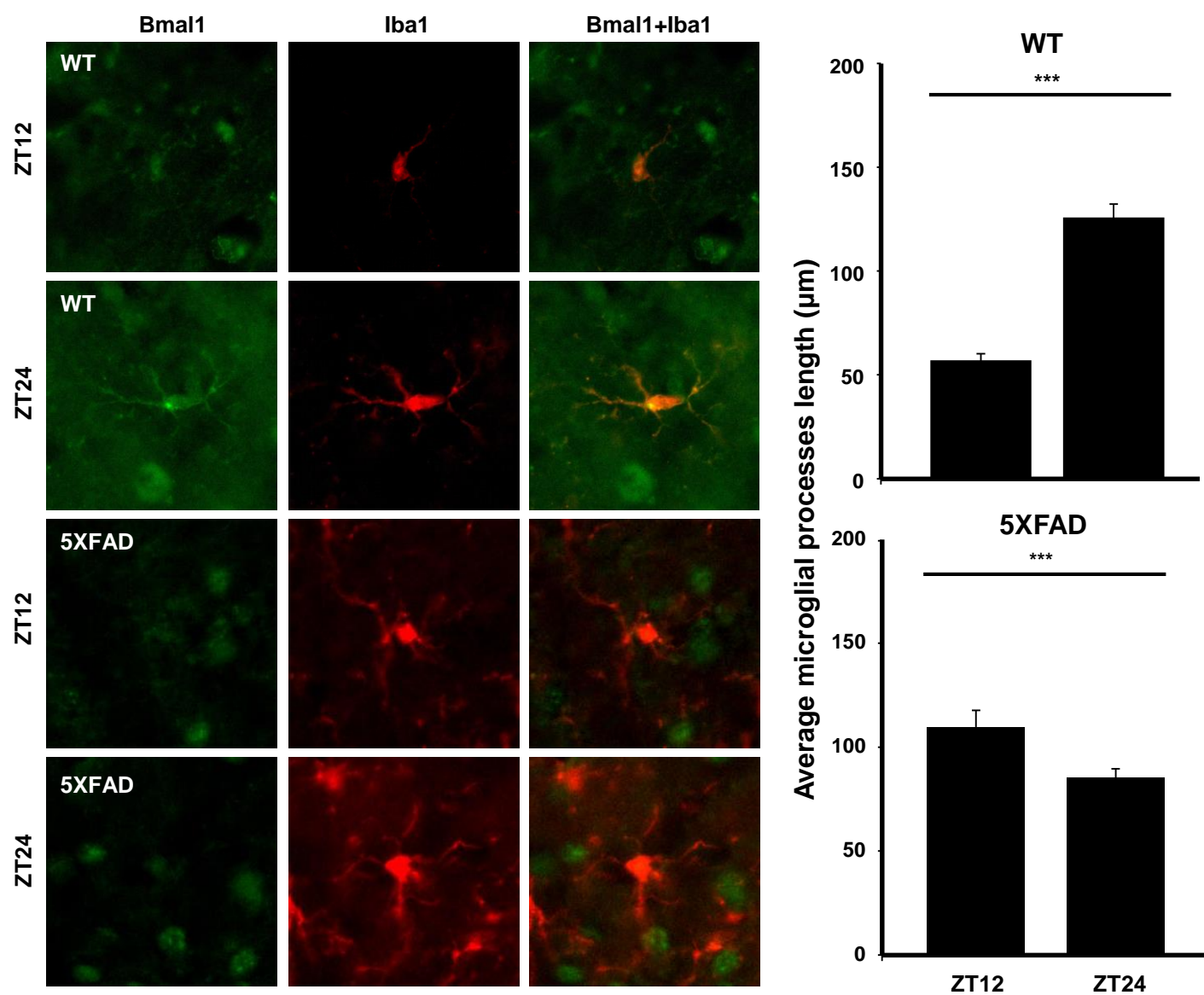


Figure S1. Lee J et. al.



**Figure S1. Diurnal expression of Bmal1 in microglia entirely reversed in the brain of 5XFAD mice compared to WT mice between ZT12 and ZT24.** Representative images of immunostaining for Bmal1 and Iba1 in the **Striatum** of a wild-type mouse and 5XFAD mouse (DAPI in blue, Iba-1 in red, and Bmal1 in green) at Zeitgeber time (ZT) 12 and 24. Arrowheads indicate cells co-labeled with Bmal1 and Iba-1. The insets show higher magnification images. The mean total intensity of Bmal1 labeling in **Iba1+ cells** at ZT12 and ZT24. \*\*\* $P < 0.001$ .

Figure S2. Lee J et. al.



**Figure S2. Microglial process length was higher at ZT24 than ZT12 and was decreased in 5XFAD along with Bmal1 downregulation.** Representative images (left) and quantification (right) of the process length of microglia in the brain section of 6.5 month WT and 5XFAD mice at ZT12 and ZT24. \*\*\*P < 0.001.